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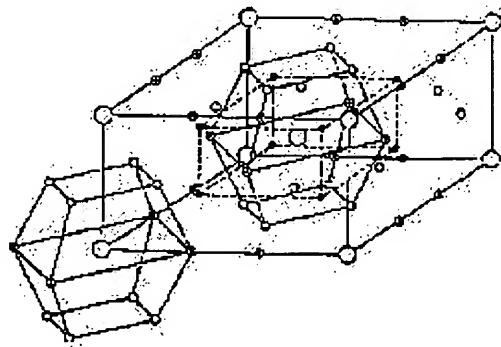
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(54) IRON-RARE EARTH PERMANENT MAGNET MATERIAL AND ITS MANUFACTURE

(57)Abstract:

PURPOSE: To stably obtain a ThMn₁₂ tetragonal structure showing excellent permanent magnet characteristics while the structure secures large saturation magnetization.

CONSTITUTION: This material is composed substantially of Fe containing 3-30at.% R and 0.5-15at.% M₁ and has a main phase composed of ThMn₁₂ tetragonal structure. The R represents the combination of one or two or more kinds of elements selected from among Y, Th, and all lanthanoid elements and M₁ represents the combination of three or more kinds of elements selected from among Ti, V, Mo, Nb, Ga, Cr, Al, Mn, Ta, W, Mg, Sn, and Ge.



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